

CORROSION RESISTANT MEMBER

Patent number: JP10045467
Publication date: 1998-02-17
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Classification:
- **International:** C04B35/44; B01J19/02; C04B35/00; C23F4/00;
H01L21/205; H01L21/3065
- **European:**
Application number: JP19960201563 19960731
Priority number(s):

Abstract of JP10045467

PROBLEM TO BE SOLVED: To prevent the falling of grains from the surface of a sintered compact of glass, stainless steel, alumina or AlN used so far and the generation of particles by gradual progress of corrosion caused owing to unsatisfactory corrosion resistance to fluorine-contg. plasma.

SOLUTION: A part of a member exposed to fluorine-contg. corrosive gas such as CF4 or SF4 or plasma of the gas is made of a sintered compact of a multiple oxide contg. a group IIIa metal of the Periodic Table such as Y, La, Ce, Nd or Dy and Al and/or Si, e.g. 3Y2 O3 .5Al2 O3 , 2Y2 O3 .Al2 O3 , Y2 O3 .Al2 O3 , a di- or monosilicate.

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